

FIG. 1
PRIOR ART

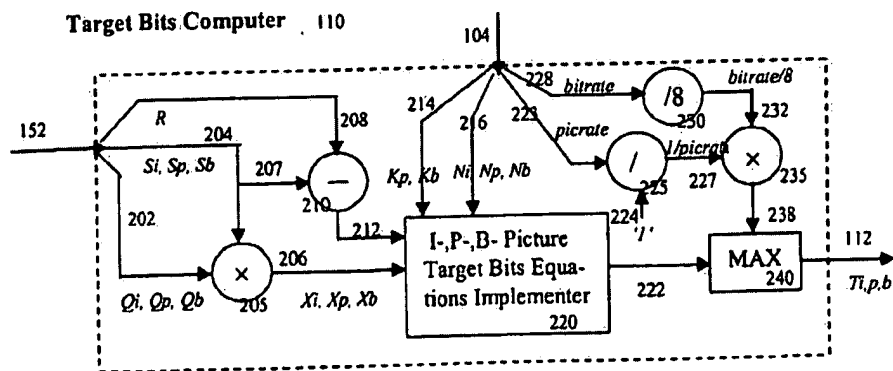


FIG. 2A
PRIOR ART

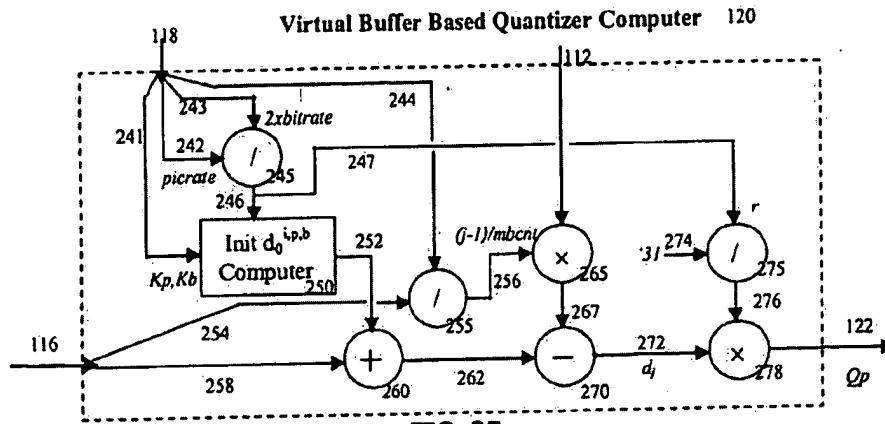


FIG. 2B
PRIOR ART

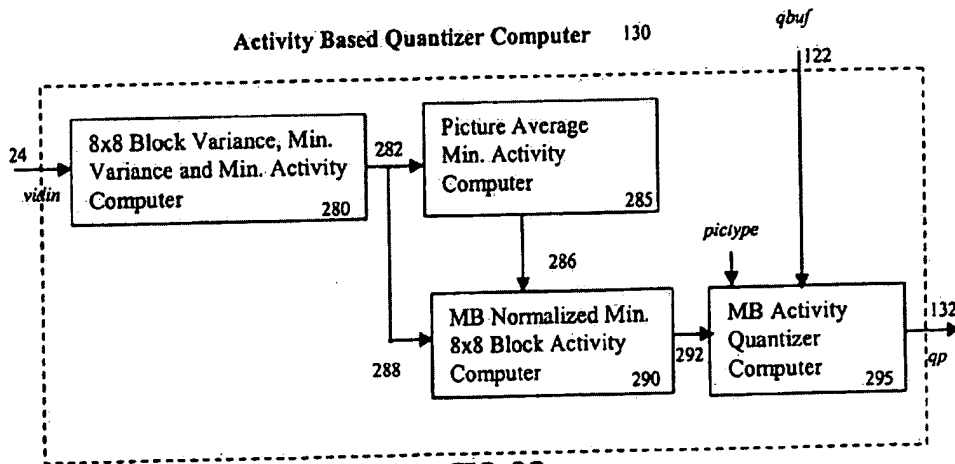


FIG. 2C
PRIOR ART

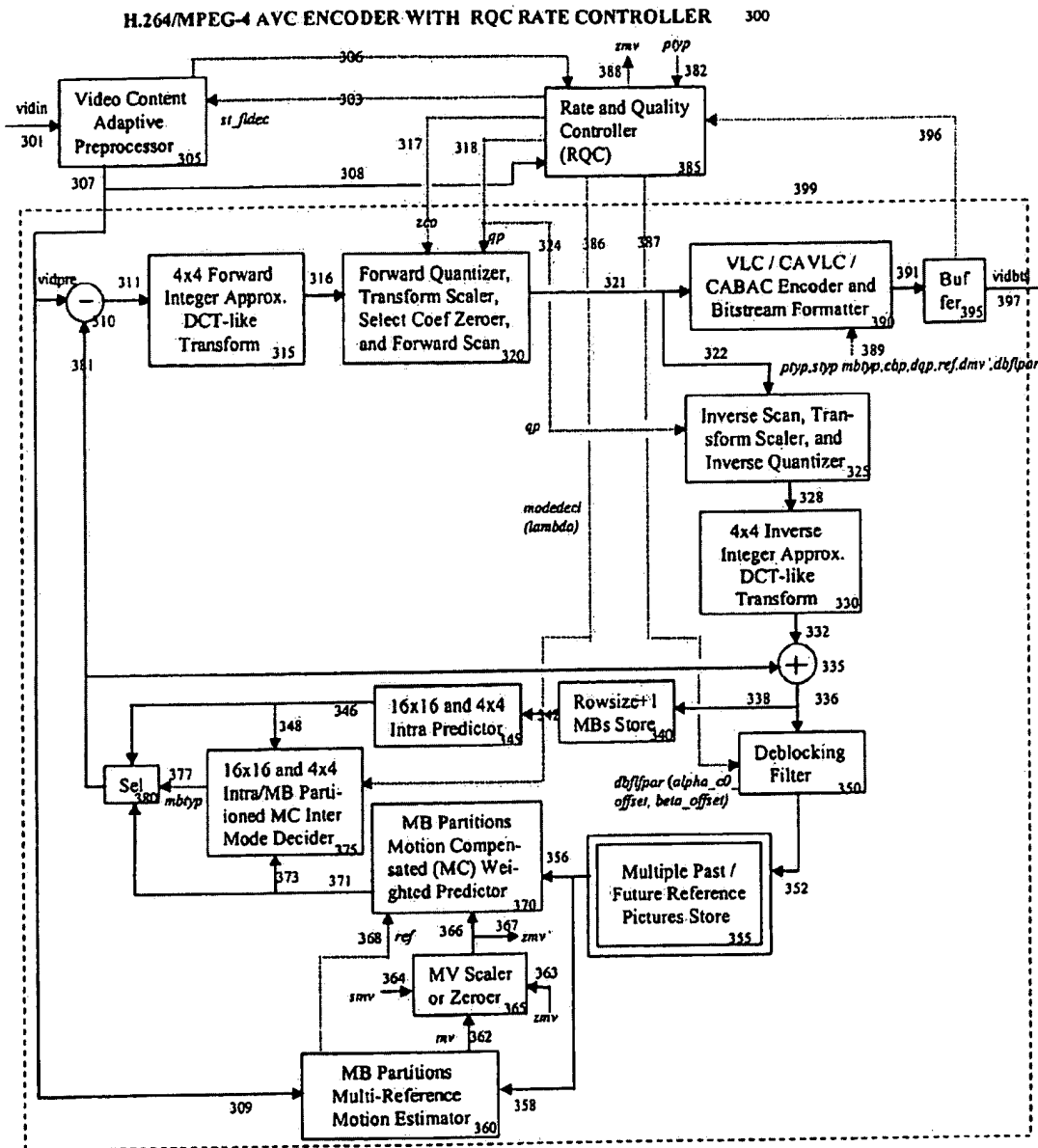


FIG. 3

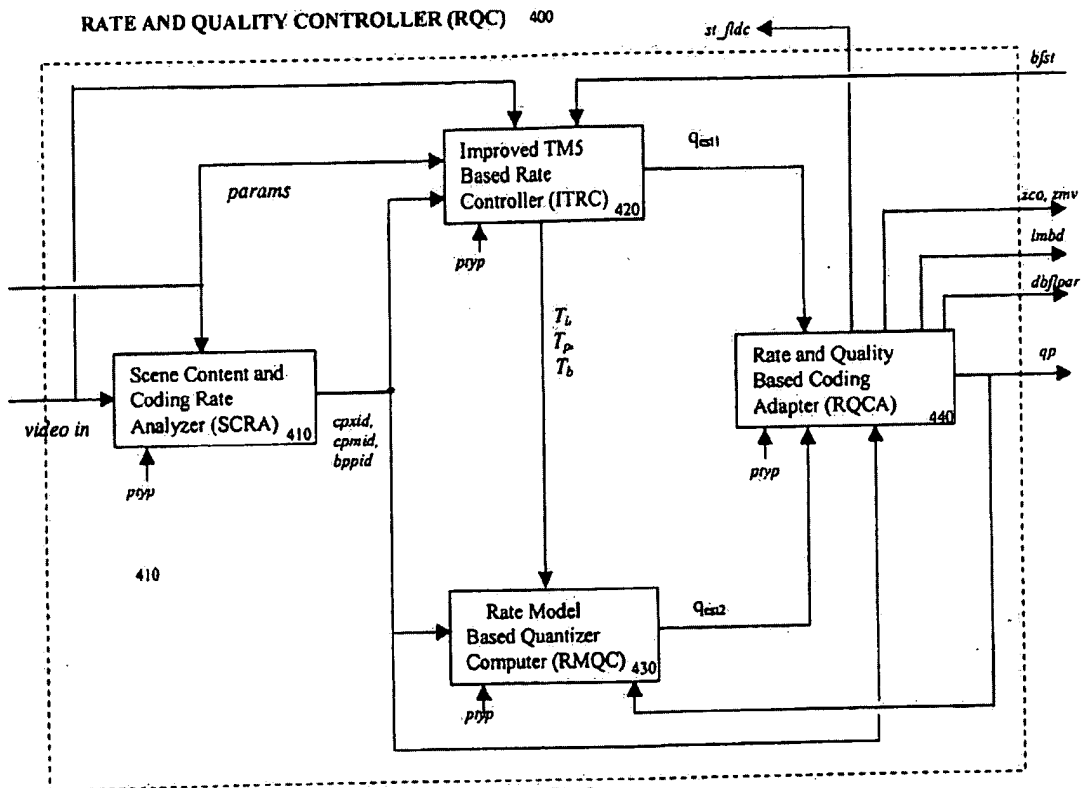


FIG. 4

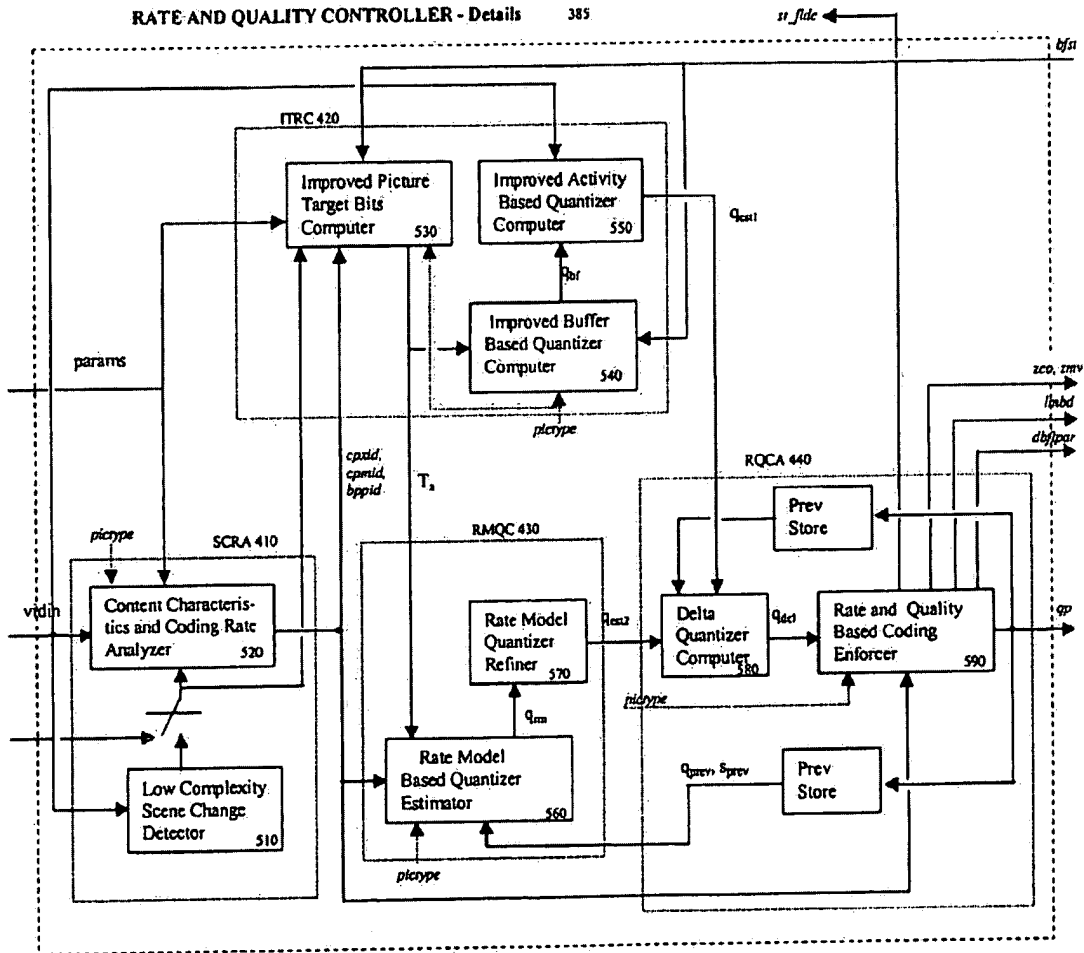


FIG. 5

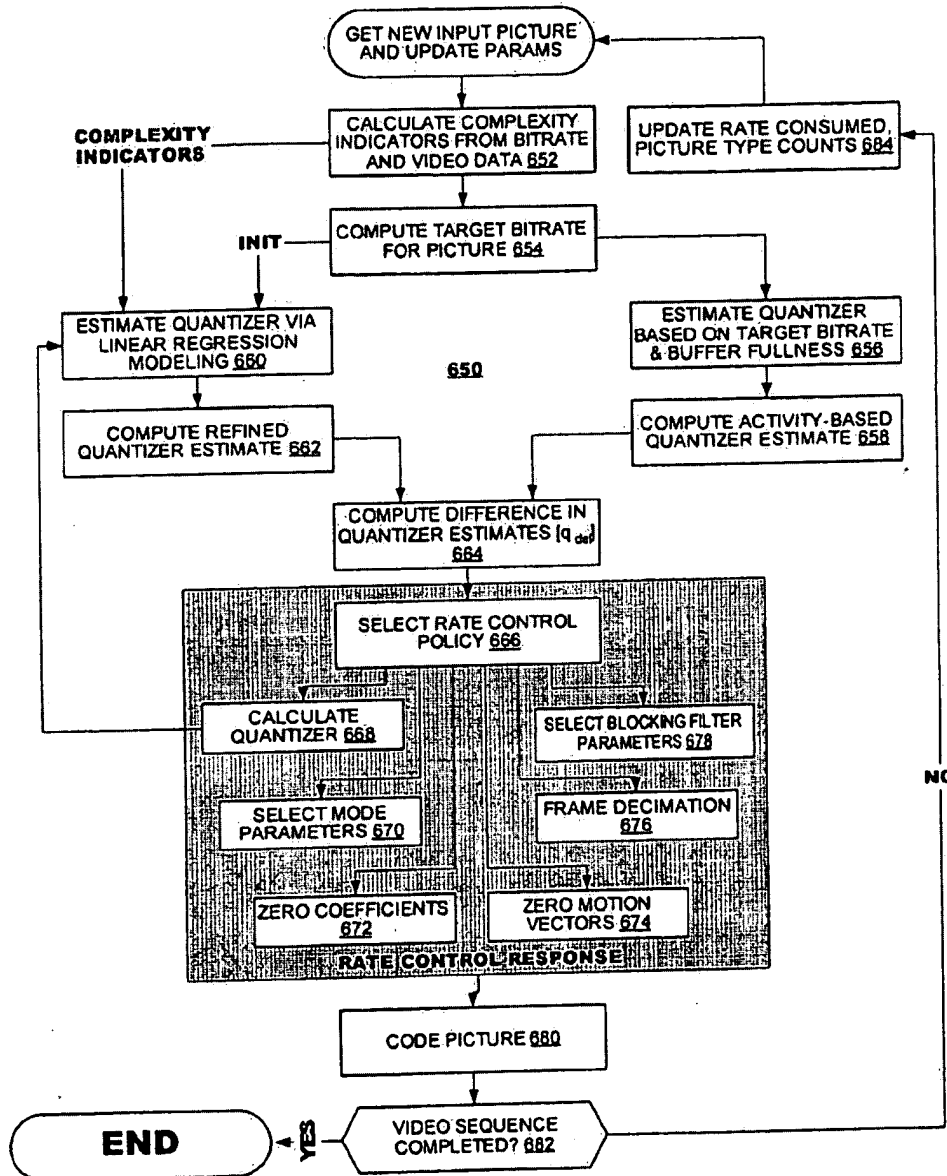


FIG. 6B

700—Video frames coding order when employing 2 B-frame coding structure

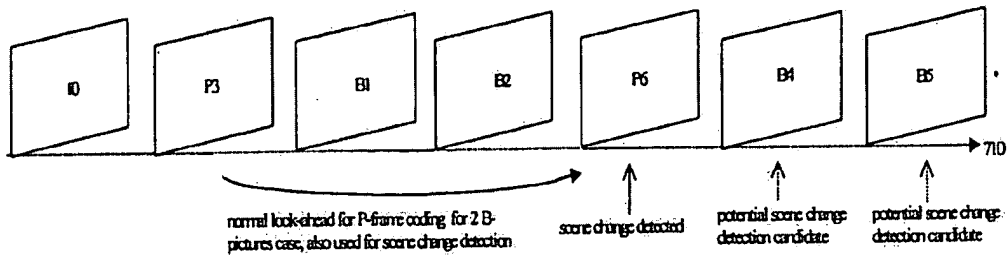


FIG. 7

Low-Complexity Scene Change Detector 510

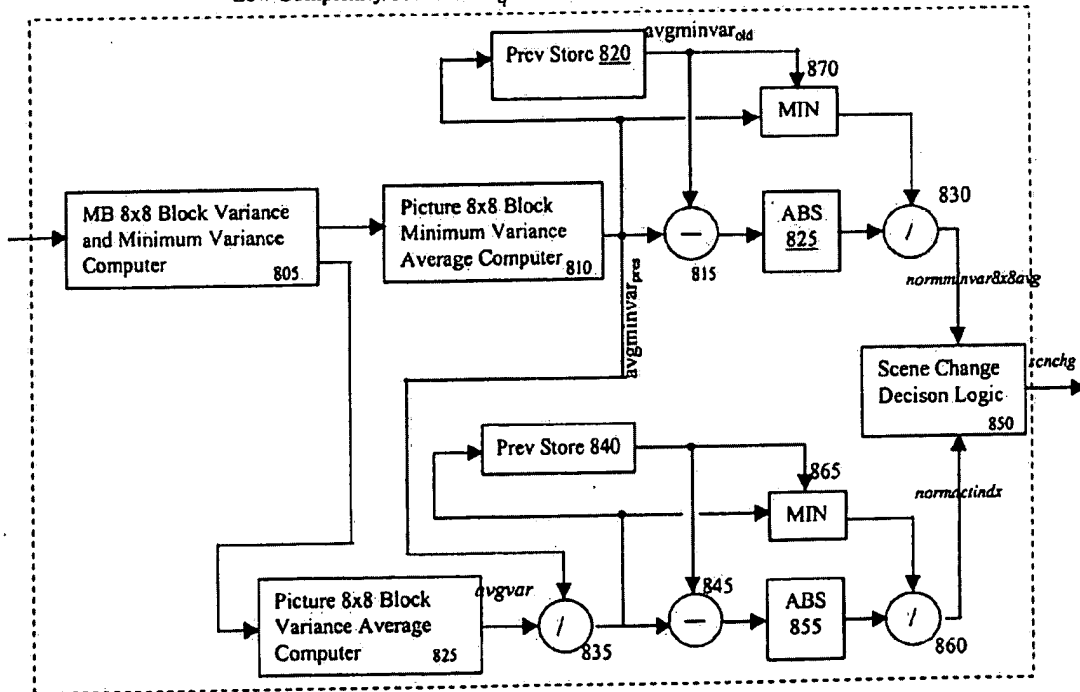
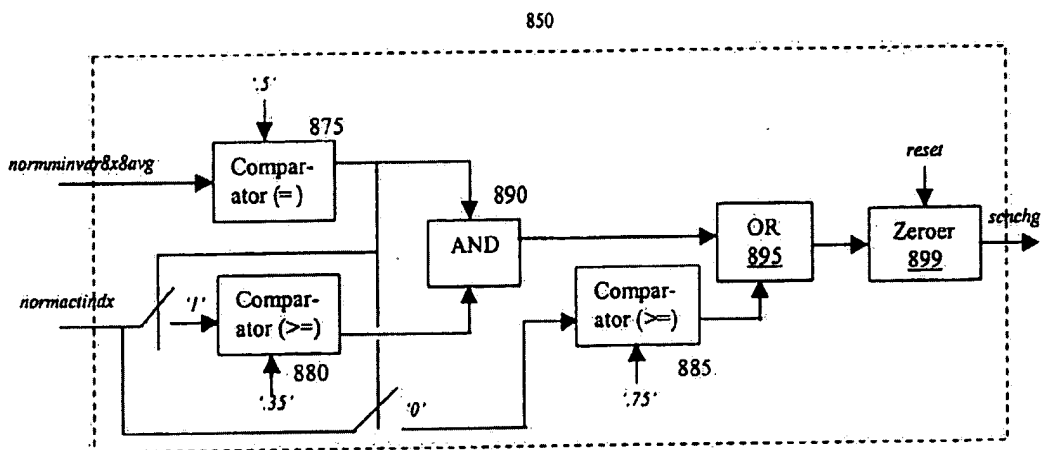


FIG. 8A



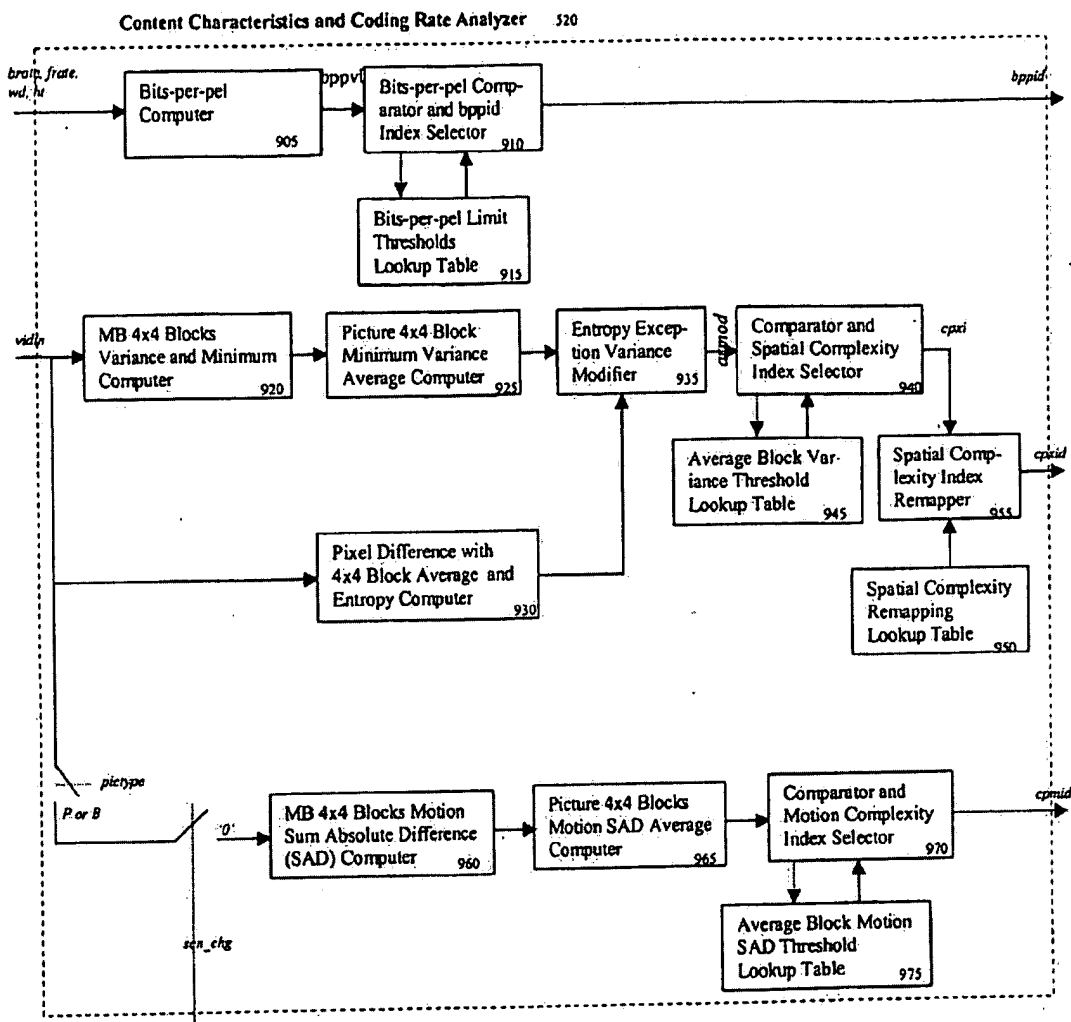


FIG. 9

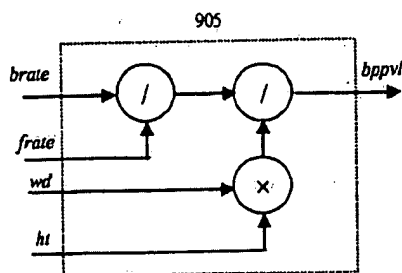


FIG. 10A

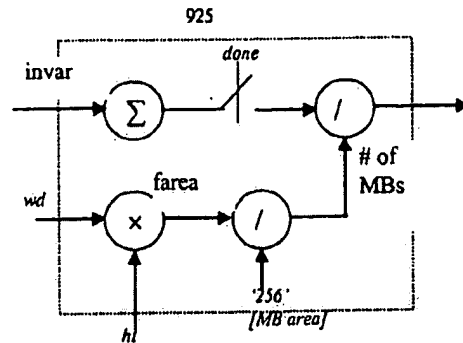


FIG. 10B

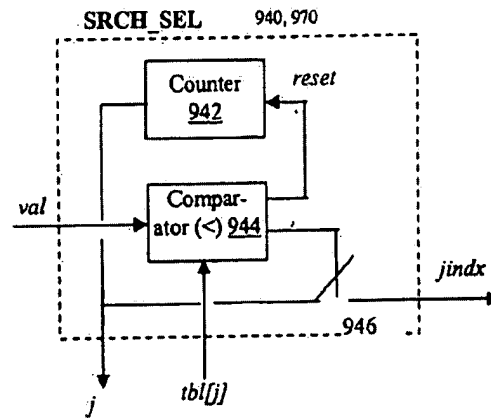


FIG. 10C

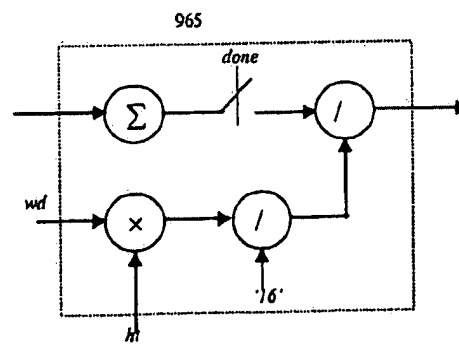


FIG. 10D

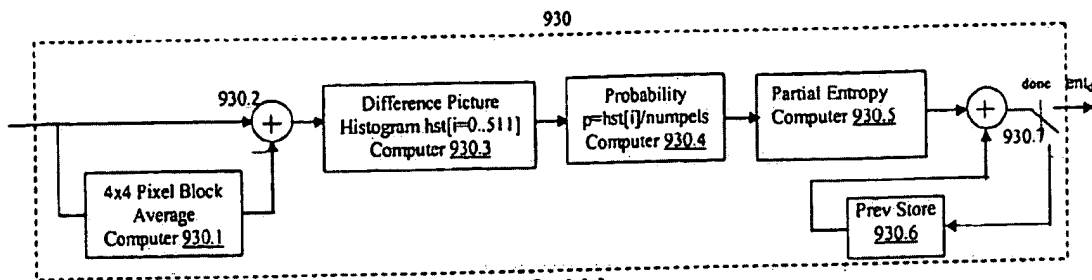


FIG. 11A

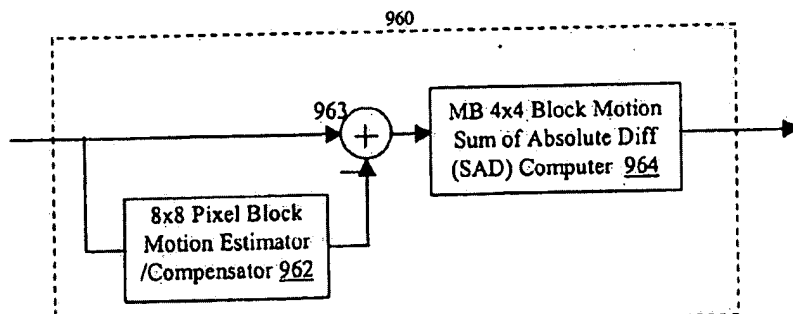


FIG. 11B

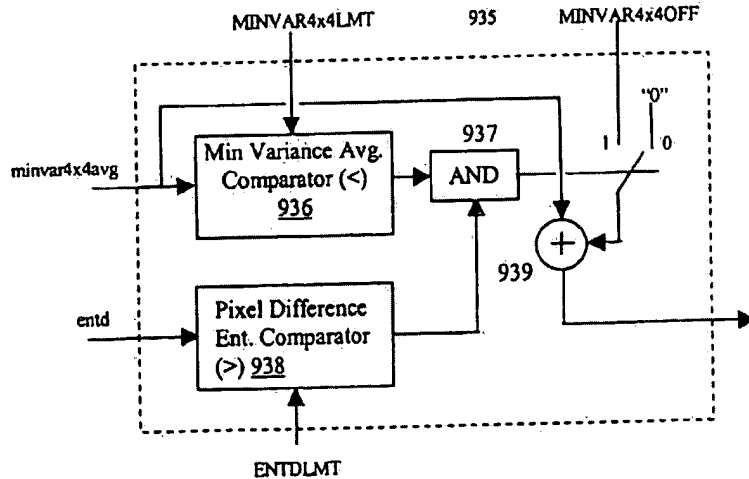


FIG. 11C

BBPID	0	1	2	3	4	5	6	7	8
	0.01052	0.02104	0.04208	0.08416	0.16832	0.33664	0.67328	1.34656	2.69312

FIG. 12A - 915

CPID											
0	1	2	3	4	5	6	7	8	9	10	11
1.0	2.0	4.5	8.5	12.5	17.0	22.0	28.0	34.0	41.0	50.0	60.0

12	13	14	15	16	17
71.0	84.0	100.0	120.0	145.0	177.0

FIG. 12B - 945

CPXID								
0	1	2	3	4	5	6	7	8
1	3	5	7	9	11	13	15	17

FIG. 12C - 955

CPMID				
0	1	2	3	4
32.0	64.0	112.0	184.0	280.0

FIG. 12D - 975

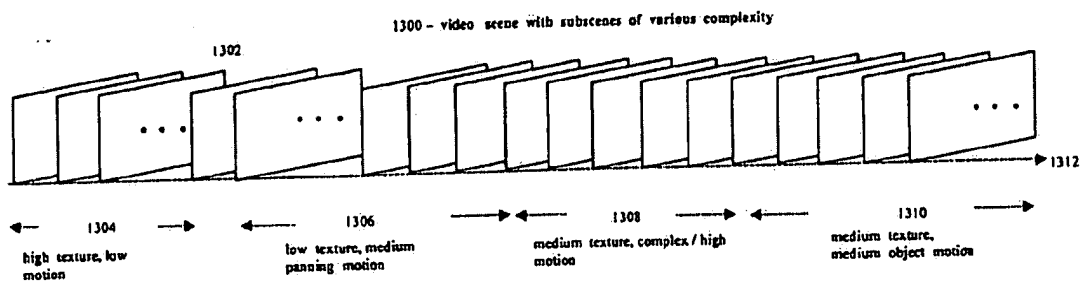
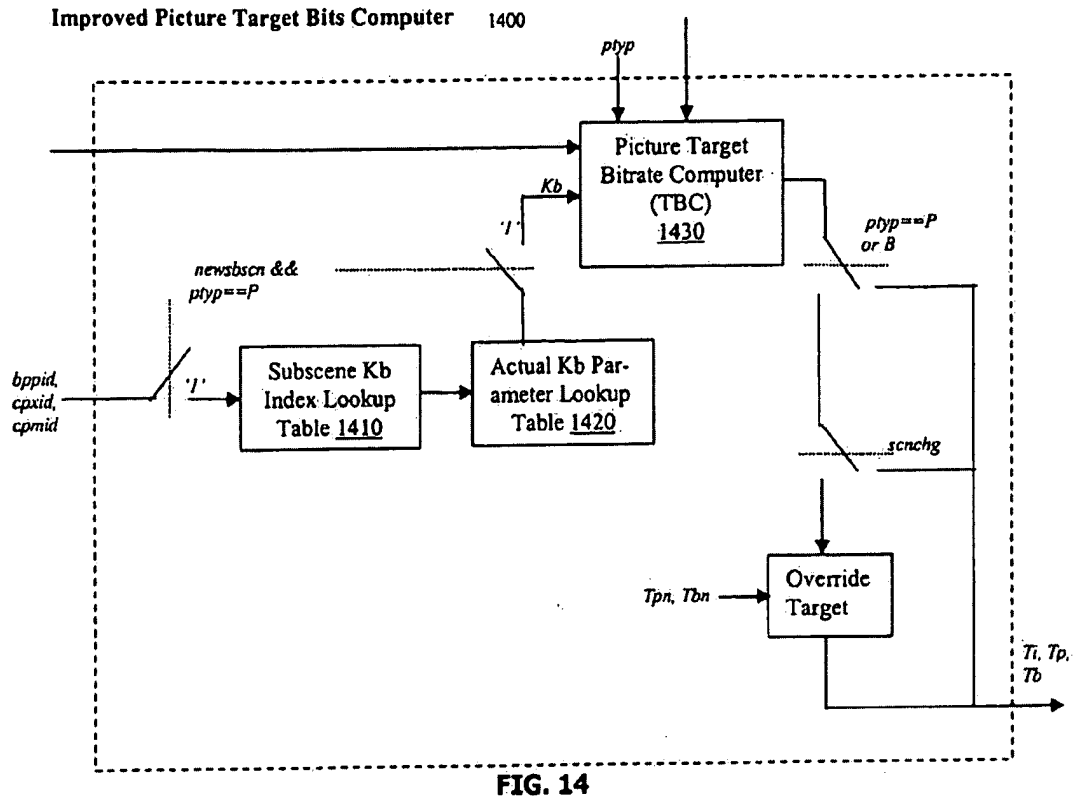


FIG. 13



KBID	0	1	2	3	4	5	6
	1.0250	1.2125	1.4000	1.5875	1.7500	1.9375	2.1250

FIG. 15A

		CPXID								
CPMID=2		0	1	2	3	4	5	6	7	8
BPPID	0	2	2	2	3	3	3	4	4	4
	1	2	2	2	2	3	3	3	4	4
	2	2	2	2	2	2	3	3	3	4
	3	2	2	2	2	2	2	3	3	3
	4	2	2	2	2	2	2	2	3	3
	5	2	2	2	2	2	2	2	2	3
	6	1	2	2	2	2	2	2	2	2
	7	1	1	2	2	2	2	2	2	2
	8	1	1	1	2	2	2	2	2	2

		CPXID								
CPMID=1		0	1	2	3	4	5	6	7	8
BPPID	0	2	2	2	2	2	3	3	3	3
	1	2	2	2	2	2	2	3	3	3
	2	2	2	2	2	2	2	2	3	3
	3	2	2	2	2	2	2	2	2	3
	4	2	2	2	2	2	2	2	2	2
	5	1	2	2	2	2	2	2	2	2
	6	1	1	2	2	2	2	2	2	2
	7	1	1	1	2	2	2	2	2	2
	8	1	1	1	1	2	2	2	2	2

FIG. 15B

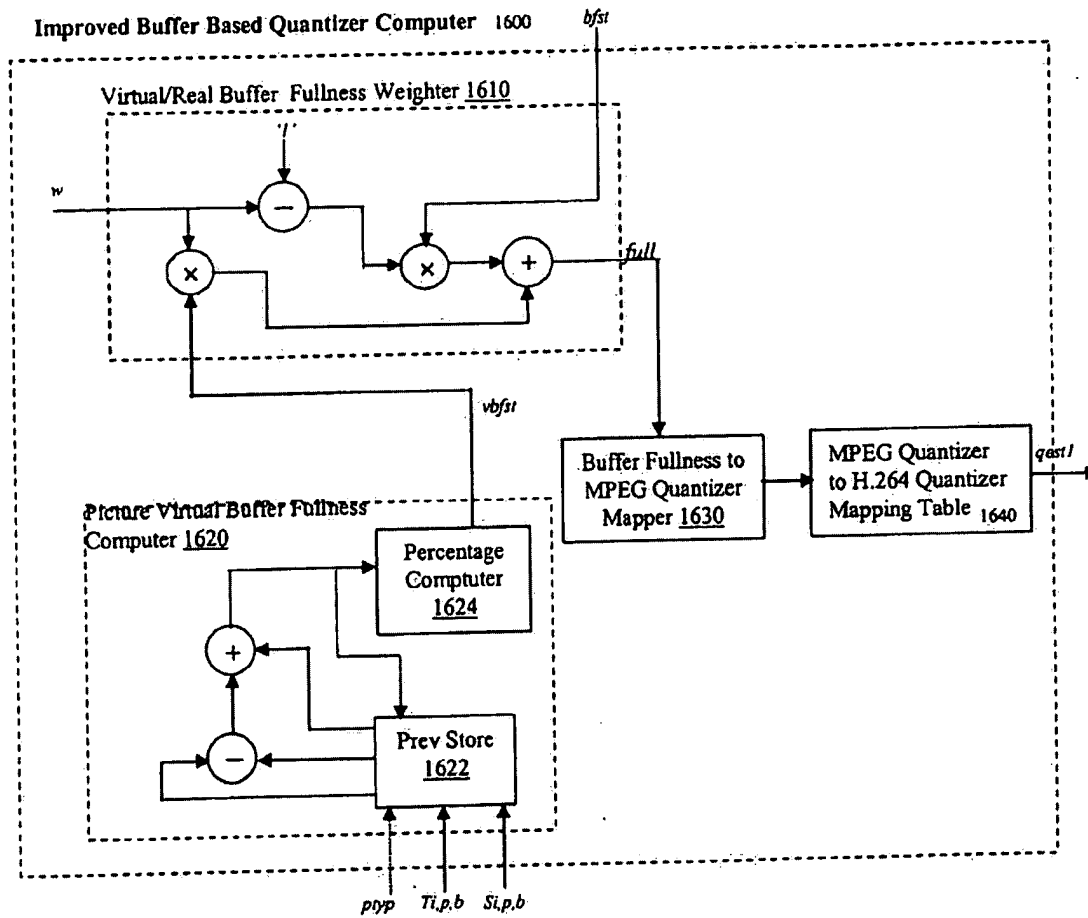


FIG. 16

qh264

0	1	2	3	4	5	6	7	8	9	10	11	12
.250	.281	.315	.353	.396	.446	.500	.561	.623	.707	.794	.891	1.00

13	14	15	16	17	18	19	20	21	22	23	24	25
1.12	1.26	1.41	1.59	1.78	2.00	2.25	2.52	2.82	3.18	3.56	4.00	4.49

26	27	28	29	30	31	32	33	34	35	36	37	38
5.04	5.65	6.35	7.13	8.00	8.98	10.08	11.31	12.70	14.25	16.00	17.96	20.16

39	40	41	42	43	44	45	46	47	48	49	50	51
22.63	25.39	28.51	32.00	35.92	40.31	45.25	50.80	57.02	64.00	71.83	80.64	90.51

FIG. 18B

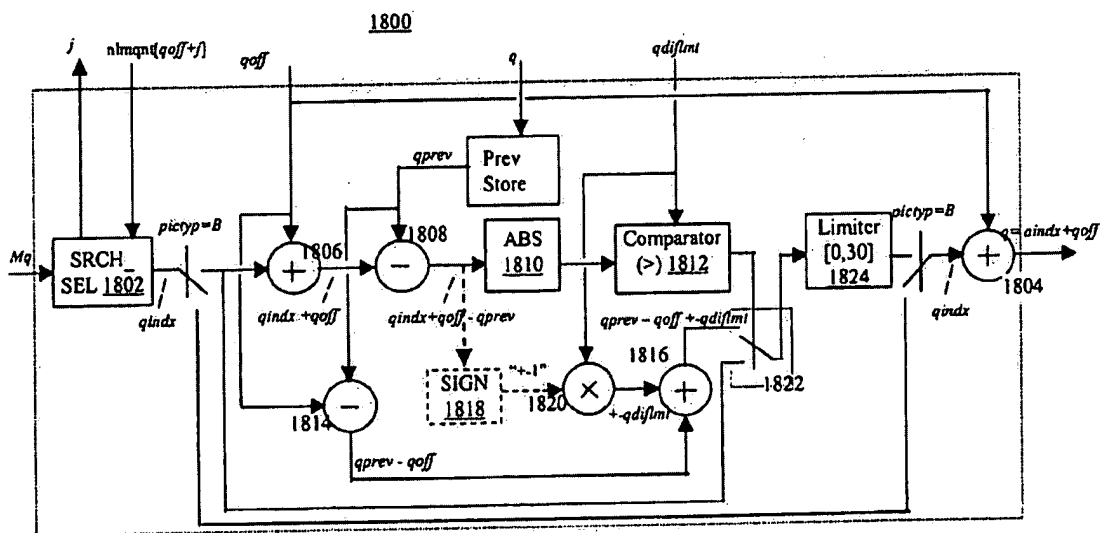


FIG. 18C

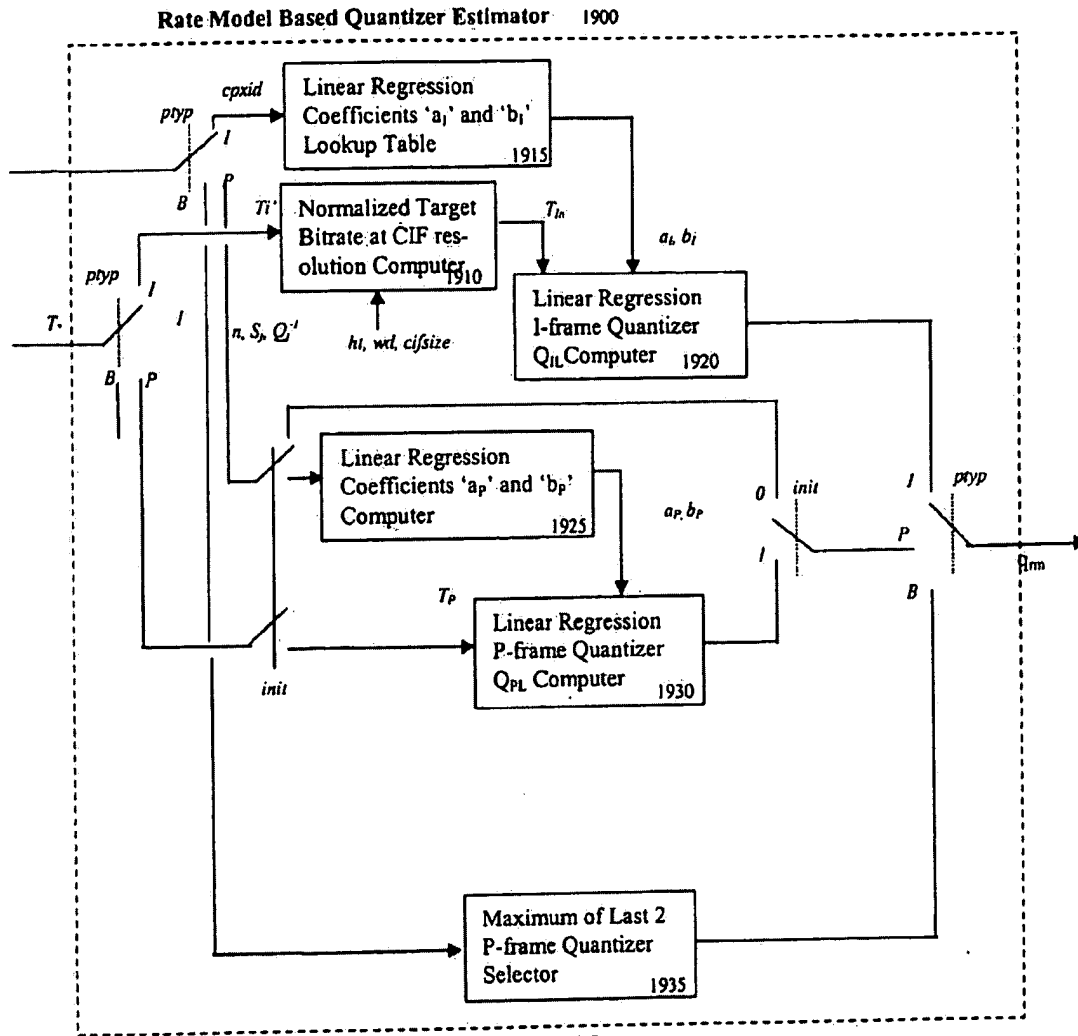


FIG. 19

CPID					
0	1	2	3	4	5
-68134.59213	-87003.98467	-106202.60465	-125401.23463	-133506.23620	-141558.73699
6	7	8	9	10	11
-149611.24778	-151588.19751	-220858.39744	-293963.81117	-254808.46319	-215653.11522
12	13	14	15	16	17
-207487.50918	-1993321.90315	-191155.48428	-182989.06541	-178235.75132	-169521.36854

FIG. 20A

CPID					
0	1	2	3	4	5
3313453.21342	3993567.19336	4565785.16255	5138003.13174	5715464.15501	6104194.66665
6	7	8	9	10	11
6492925.17829	6678722.15535	9084900.80067	11517856.77655	10611605.70466	9705354.63278
12	13	14	15	16	17
9777071.15962	9848787.68646	9920504.21330	9992220.74014	10623397.89991	11435042.39299

FIG. 20B

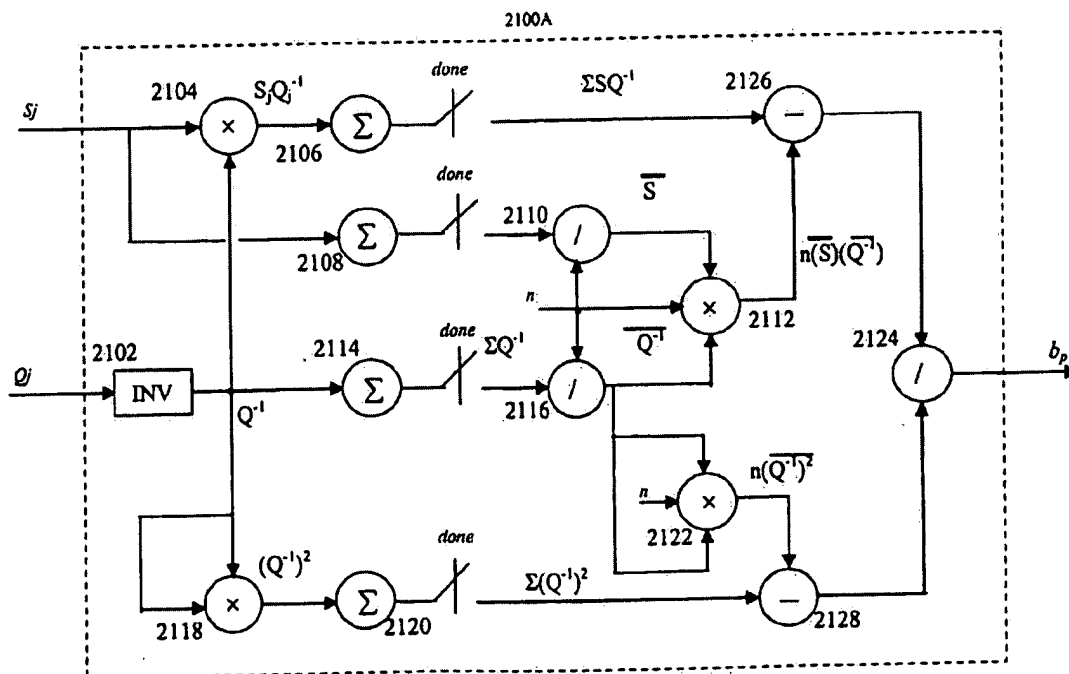


FIG. 21A

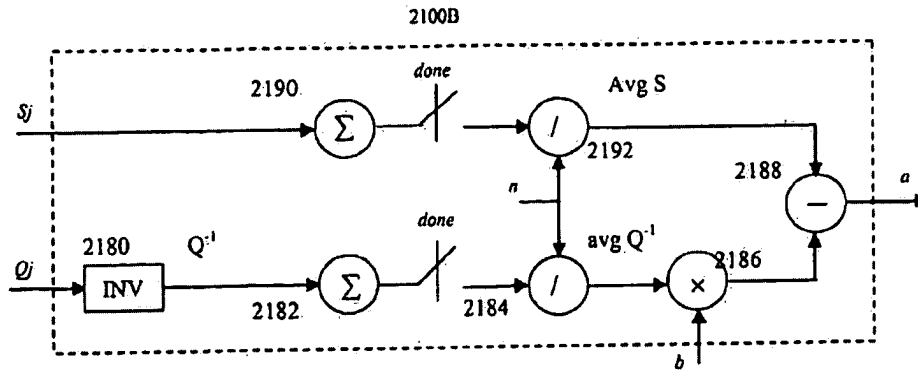


FIG. 21B

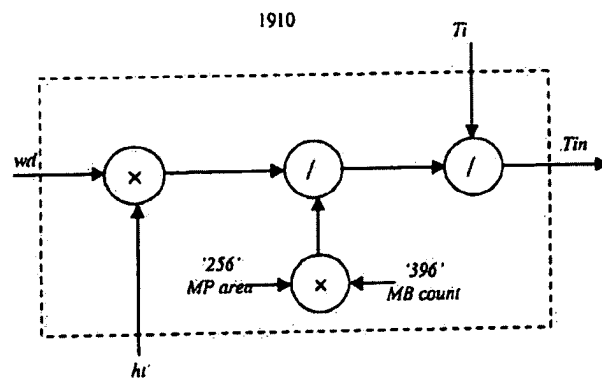


FIG. 22A

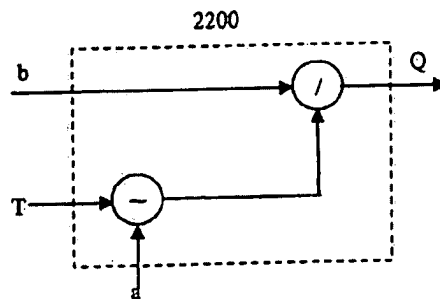


FIG. 22B



FIG. 23



FIG. 24A

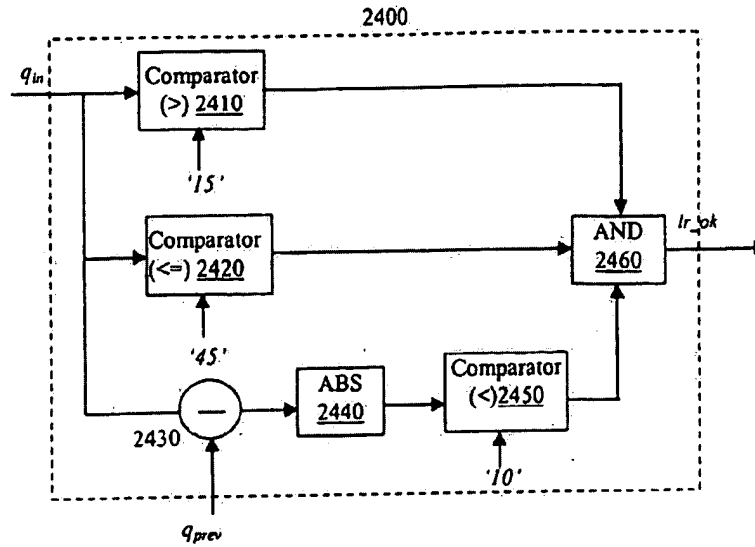


FIG. 24B

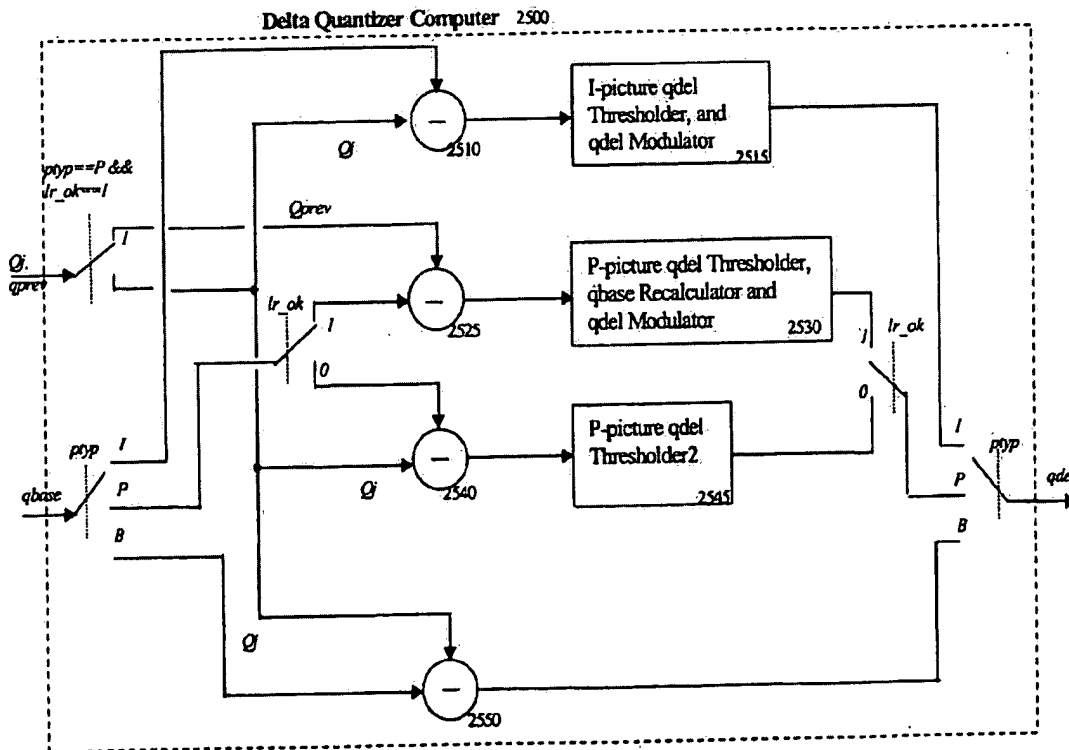


FIG. 25

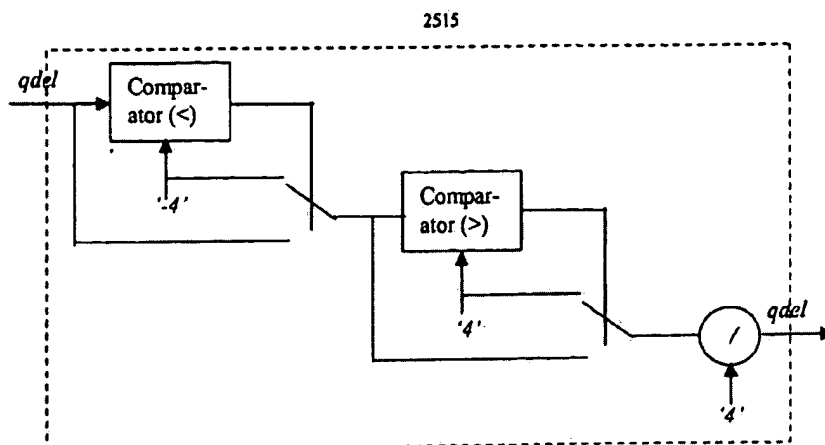


FIG. 26A

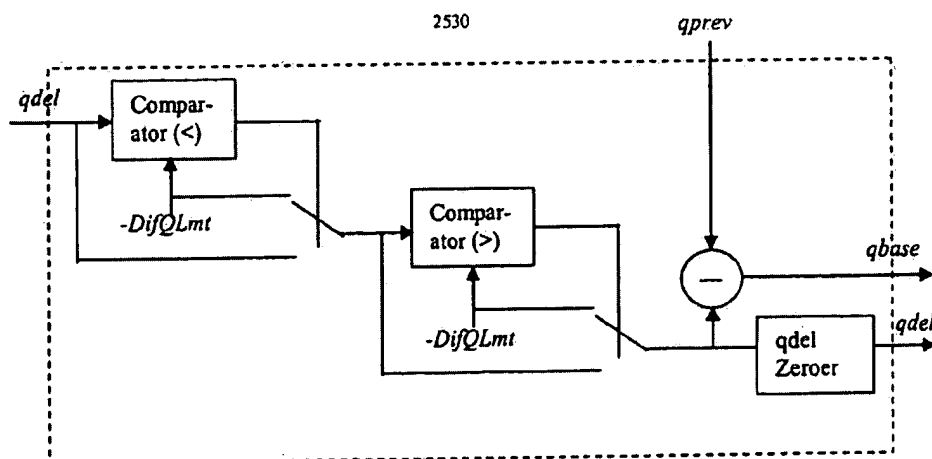


FIG. 26B

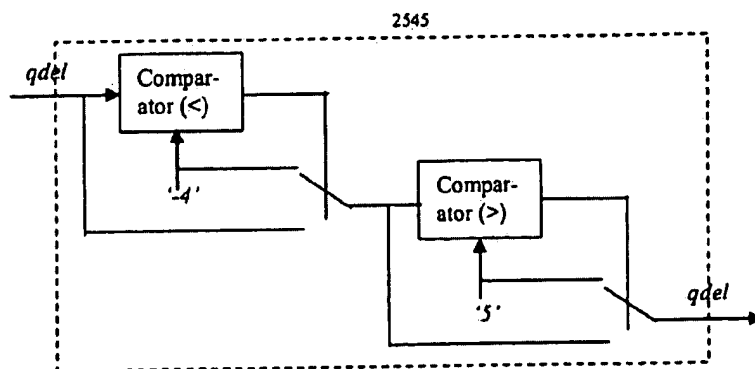


FIG. 26C

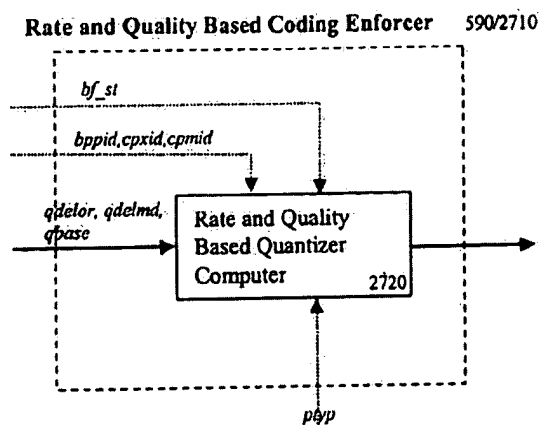


FIG. 27

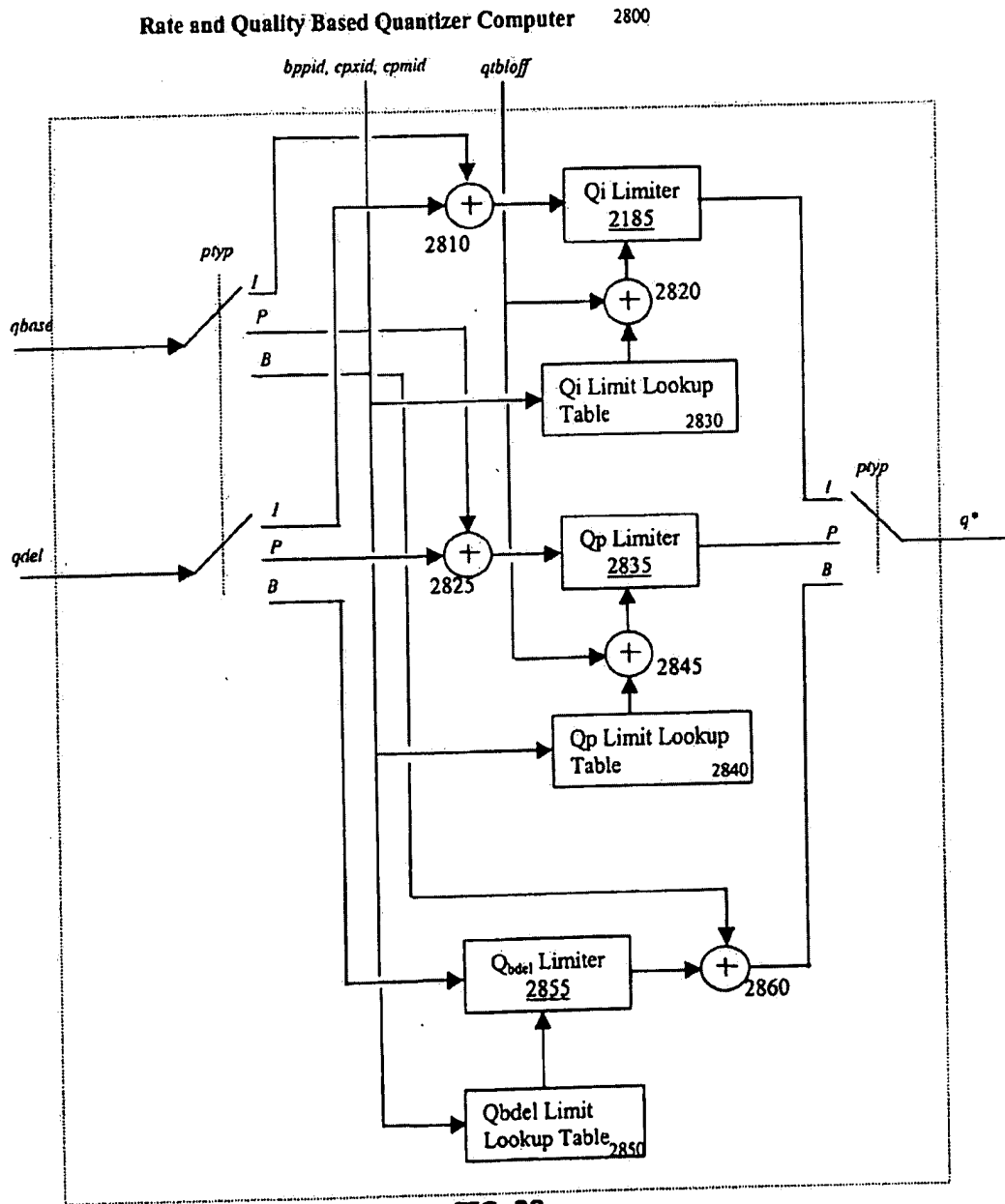


FIG. 28

BPPID	CPXID								
	0	1	2	3	4	5	6	7	8
0	10	11	12	13	14	15	16	17	18
1	9	10	11	12	13	14	15	16	17
2	8	9	10	11	12	13	14	15	16
3	7	8	9	10	11	12	13	14	15
4	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13
6	4	5	6	7	8	9	10	11	12
7	3	4	5	6	7	8	9	10	11
8	2	3	4	5	6	7	8	9	10

FIG. 29A

BPPID	CPXID								
	0	1	2	3	4	5	6	7	8
0	10	11	12	13	14	15	16	17	18
1	9	10	11	12	13	14	15	16	17
2	8	9	10	11	12	13	14	15	16
3	7	8	9	10	11	12	13	14	15
4	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13
6	4	5	6	7	8	9	10	11	12
7	3	4	5	6	7	8	9	10	11
8	2	3	4	5	6	7	8	9	10

FIG. 29B

BPPID	CPXID								
	0	1	2	3	4	5	6	7	8
0	2	2	2	3	3	3	4	4	4
1	1	2	2	2	3	3	3	4	4
2	1	1	2	2	2	3	3	3	4
3	1	1	1	2	2	2	3	3	3
4	1	1	1	1	2	2	2	3	3
5	0	1	1	1	2	2	2	2	3
6	0	0	1	1	1	2	2	2	2
7	0	0	0	1	1	1	2	2	2
8	0	0	0	0	1	1	1	2	2

FIG. 29C

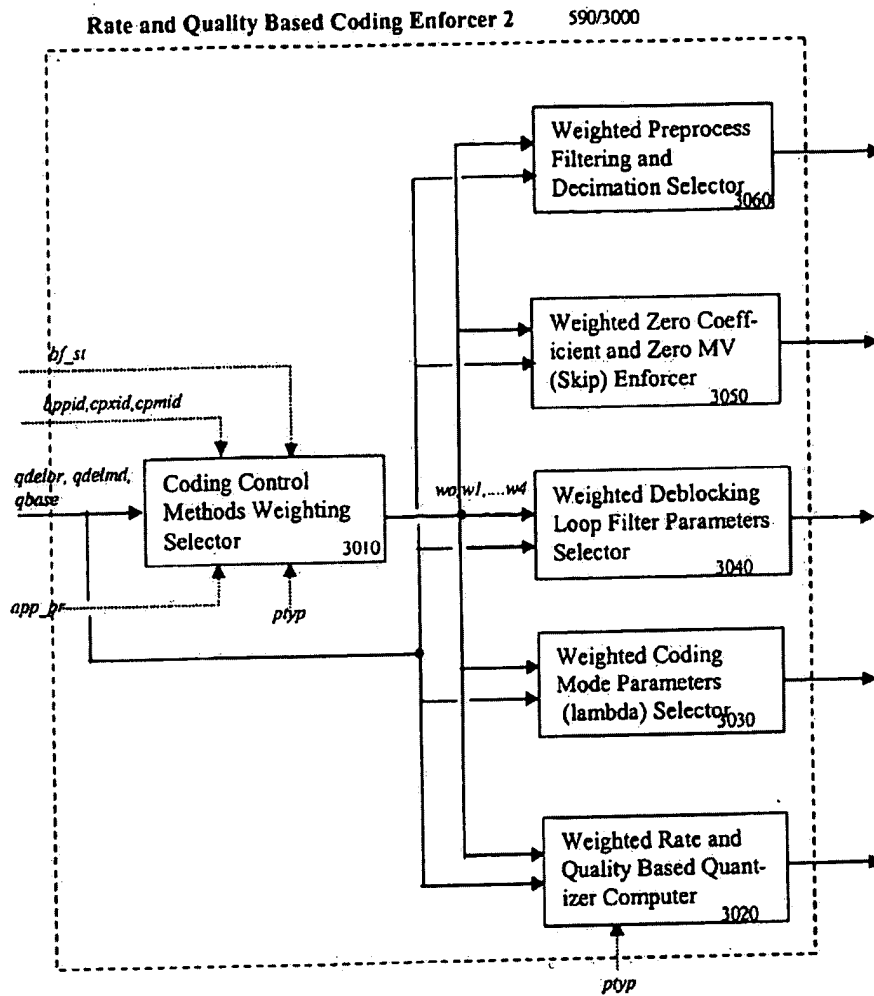


FIG. 30

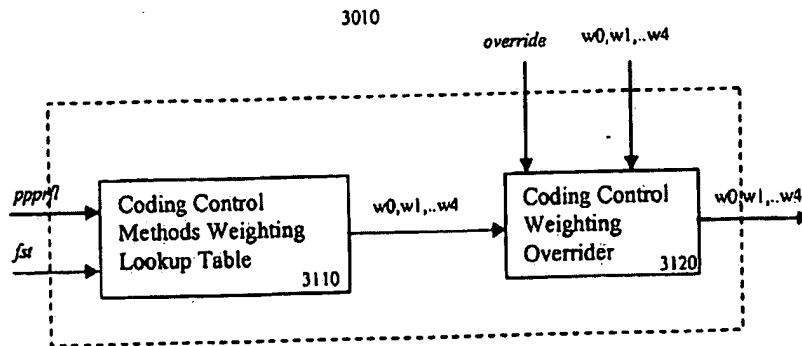


FIG. 31

		app_pr										brst														
		0					1					2					3					4				
		0	1	2	3	4	0	1	2	3	4	0	1	2	3	4	0	1	2	3	4	0	1	2	3	4
brst	0	0.23	0.30	0.18	0.26	0.07	0.07	0.07	0.26	0.14	0.23	0.1	0.3	0.34	0.35	0.29	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	1	0.11	0.48	0.25	0.03	0.23	0.15	0.19	0.12	0.27	0.08	0.34	0.35	0.29	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	2	0.08	0.21	0.45	0.18	0.15	0.12	0.15	0.14	0.21	0.08	0.35	0.29	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	3	0.44	0.39	0.07	0.09	0.31	0.45	0.28	0.11	0.23	0.09	0.29	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	4	0.47	0.30	0.28	0.12	0.08	0.35	0.10	0.12	0.24	0.07	0.32	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	5	0.44	0.37	0.10	0.30	0.29	0.15	0.41	0.13	0.2	0.08	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	6	0.40	0.47	0.38	0.22	0.44	0.27	0.27	0.1	0.22	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	7	0.10	0.12	0.47	0.27	0.10	0.09	0.22	0.11	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	8	0.30	0.22	0.49	0.46	0.18	0.49	0.47	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	9	0.11	0.44	0.07	0.03	0.36	0.09	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36

FIG. 32

Weighted Rate and Quality Based Quantizer Computer 3020

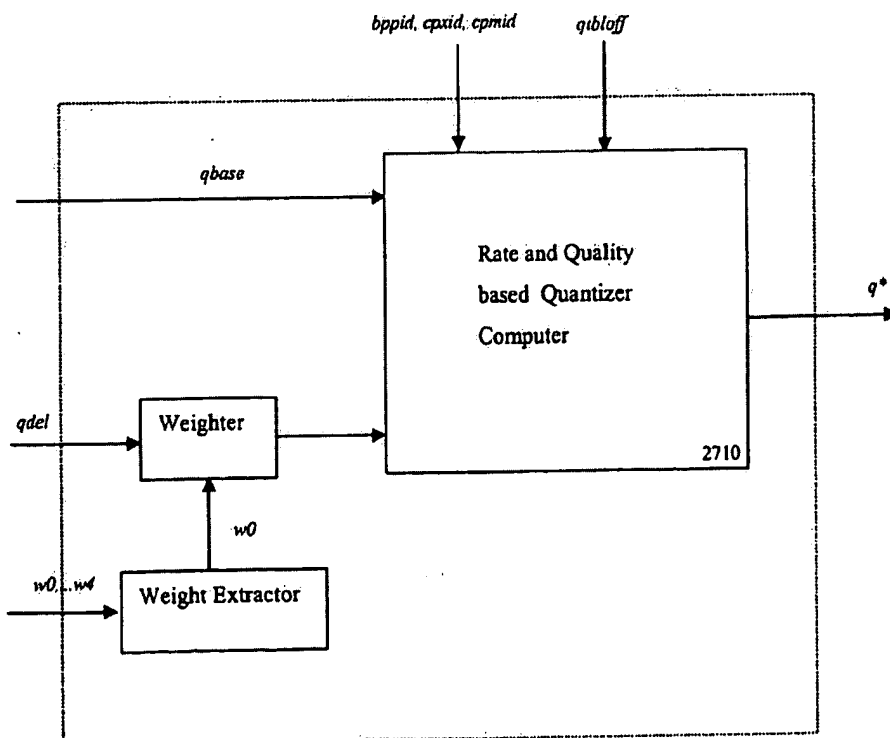


FIG. 33